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Case to Capsule Radiation Smoothing in a Foam Filled Hohlraum[1] D. A. CALLAHAN, M. TABAK, *Lawrence Livermore National Laboratory* — Indirect drive ICF takes advantage of the smoothing of high order Legendre modes that occurs between the radiation source and the capsule. For vacuum transport, this smoothing has been calculated. For some target designs, however, it is advantagous to fill the hohlraum with a low density foam. We will present 2-d Lasnex calculations which show the effects of the foam on the smoothing of high order Legendre modes and discuss the implications for foam filled, spherical ion targets. In particular, we will discuss the effect of the foam on generating asynchronies in the radiation flux driving the capsule and leading to possible imprinting.

[1]Work performed under auspices of the U.S. DoE by LLNL under contract W-7405-ENG-48.

☐ Prefer Oral Session
☒ Prefer Poster Session

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